



WISCONSIN PUBLIC SERVICE
COMMISSION

Madison Gas and Electric Company
P.O. Box 1231
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PSC 113.0607
(3270)

life enhancing energy

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April 30, 2001

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Electric Division

Mr. James D. Loock
Chief Engineer, Electric Division
Public Service Commission of Wisconsin
610 North Whitney Way
Post Office Box 7854
Madison, Wisconsin 53707-7854

PUBLIC SERVICE COMMISSION
MASTER
FILE COPY
WISCONSIN

Subject: PSC 113.0607 - Appropriate Inspection and Maintenance System Reliability -
Operating Performance Statistics

Dear Mr. Loock:

To satisfy the requirements of the service rule referenced above, enclosed is MGE's Operating Performance Statistics for units nameplate rated at 50 MWs or more. The West Marinette Combustion Turbine is the only unit owned and operated by MGE that is nameplate rated larger than 50 MWs.

I believe this information satisfies the requirements of PSC 113.0607, paragraph six (6), but if you have any questions or require additional information, please contact me at your earliest convenience.

Sincerely,

Steven C. Dietrich, P.E.
Director - Blount Maintenance and Stores

dsh

Enclosure

2000

Generating Facilities

WPSC Preventive Maintenance Plan

Attachment A

Plant	Unit	Technology Type	Net Summer Capacity MW	Net Winter Capacity MW	Net Generation MWh	Heat Rate Btu/KWh	Cap. Factor	Fuel Consumed Total MMBTU's	Forced Outage Rate	Scheduled Outage Factor
West Marinette	34	Combustion turbine	78	106	31,417		5.94		35.34	0.00

Definitions: Forced Outage Rate - $\frac{[\text{Forced Outage Hours} / (\text{Forced Outage Hours} + \text{Service Hours})] \times 100(\%)}{\text{Scheduled Outage Factor} - (\text{Scheduled Outage Hours} / \text{Period Hours}) \times 100(\%)}$

M34 Facility Monthly Operating Report

December 2000

Operational Data

Opening readings were taken on 12/01/2000

Closing readings were taken on 1/01/2001

		June	July	August	September
Gross Generation	kWh	6,242,000	4,481,000	10,394,000	2,388,000
Net Generation	kWh	6,152,000	4,398,000	10,308,000	2,318,000
Natural Gas Fuel	CCF	774,700	559,500	1,278,700	300,900
Oil Fuel	Gal	0	0	0	0
Demineralized Water Consumed	Gal	0	0	0	0
Heat Rate	Btu/kWh	12693	12836	12516	13098
Cap. Factor (Nameplate)	%	10.44	7.25	34.17	3.99
Total Fired Hours	hrs	X	24.5	160.8	39
Peak Fired Hours	hrs	X	0	0	0
Gas Fired Hours	hrs	X	24.5	160.8	39
Fired Starts		X	3	13	3
Emergency Trips		X	0	0	0

M34 Facility Monthly Operating Report

December 2000

Operational Data

Opening readings were taken on 12/01/2000

Closing readings were taken on 1/01/2001

		October	November	December	YTD
Gross Generation	kWh	1,103,000	4,721,000	2,654,000	31,983,000
Net Generation	kWh	1,034,000	4,644,000	2,563,000	31,417,000
Natural Gas Fuel	CCF	92,200	590,500	358,600	3,955,100
Oil Fuel	Gal	40,037	2699	1705	44,441
Demineralized Water Consumed	Gal	17,186	1,356	0	18,542
Heat Rate	Btu/kWh	14,332*	12,897	14,195	
Cap. Factor (Nameplate)	%	1.78	7.89	4.29	7.50
Total Fired Hours	hrs	23.2	76.5	51.6	499.9
Peak Fired Hours	hrs	0	0	0	5.4
Gas Fired Hours	hrs	12.1	76	51.2	487.9
Fired Starts		26	8	14	80
Emergency Trips		6	0	0	6

M34 Facility Monthly Operating Report

January 2001

Operational Data

Opening readings were taken on 1/1/2001

Closing readings were taken on 2/1/2001

		January	YTD
Gross Generation	kWh	5,235,000	5,235,000
Net Generation	kWh	5,145,000	5,145,000
Natural Gas Fuel	CCF	361,100	361,100
Distillate Fuel	Gal	202,499	202,499
Mineralized Oil Consumed	Gal	142,326	142,326
Heat Rate	Btu/kWh	12,506	12,506
Cap. Factor (Nameplate)	%	8.47	8.47
Total Fired Hours	hrs	73.1	73.1
Peak Fired Hours	hrs	0	0
Gas Fired Hours	hrs	42.0	42.0
Fired Starts		10	10
Emergency Trips		6	6

M34 Facility Monthly Operating Report

February 2001

Operational Data

Opening readings were taken on 2/1/2001

Closing readings were taken on 3/1/2001

		January	February	YTD
Gross Generation	kWh	5,235,000	8,104,000	13,339,000
Net Generation	kWh	5,145,000	8,016,000	13,161,000
Natural Gas Fuel	CCF	361,100	1,003,200	1,364.300
Distillate Fuel	Gal	202,499	0	202,499
Dememineralized Water Consumed	Gal	142,326	0	142,326
Heat Rate	Btu/kWh	12,506	12,615	12,572
Cap. Factor (Nameplate)	%	8.47	14.5	11.3
Total Fired Hours	hrs	73.1	117.8	190.9
Peak Fired Hours	hrs	0	1.0	1.0
Gas Fired Hours	hrs	42.0	117.8	159.8
Fired Starts		10	8	18
Emergency Trips		6	0	6

M34 Facility Monthly Operating Report 2001

Operational Data

	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Gross Generation	KWH	5,235,000	8,104,000	9,242,000	0	0	0	0	0	0	0	0	22,581,000
Net Generation	KWH	5,145,000	8,016,000	9,154,000	0	0	0	0	0	0	0	0	22,315,000
Natural Gas Fuel	CCF	361,100	1,003,200	1,128,300	0	0	0	0	0	0	0	0	2,492,600
Distillate Fuel	GAL	202,499	0	0	0	0	0	0	0	0	0	0	202,499
Demineralized Water Consumed	GAL	142,326	0	0	0	0	0	0	0	0	0	0	142,326
Heat Rate	BTU/KWH	12,506	12,615	12,424	0	0	0	0	0	0	0	0	12,512
Cap. Factor (Nameplate)	%	8.47	14.52	14.95	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	13
Total Fired Hours	HRS	73.10	117.80	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	321
Peak Fired Hours	HRS	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1
Gas Fired Hours	HRS	42.00	117.80	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	290
Fired Starts		10	8	9	0	0	0	0	0	0	0	0	27
Emergency Trips		6	0	0	0	0	0	0	0	0	0	0	6
Period Hours		744	672	744	0	0	0	0	0	0	0	0	2,160
Opening Reading Taken on		1/1/2001	2/1/2001	03/01/01	03/01/01	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	
Closing Reading Taken on		2/1/2001	3/1/2001	04/01/01	04/01/01	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	mm/dd/yyyy	

Bruce Crocker
Eastern Hydro Supervisor
4/5/2001